

**SYSTEM AND METHOD FOR IDENTIFYING CO-CHANNEL INTERFERENCE IN
A RADIO NETWORK**

ABSTRACT OF THE DISCLOSURE

5 The present invention is directed toward a system and method for identifying co-channel interference in a radio network. In an exemplary method according to the present invention, a first stream of transmission data having a first received signal frequency at a first reception location for a first period of time is received. Further, the first signal frequency of the first stream of transmission data is identified. Then the transmission data is correlated
10 against a signal template to identify a first FCCH burst frame. Then, first FCCH time data corresponding to the first FCCH burst frame is identified and the signal frequency of the first stream of transmission data and the first FCCH time data is compared to a reference file to determine one or more probable transmission cells.

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